

L Number	Hits	Search Text	DB	Time stamp
1	330	oligomeriz\$5 near40 (lube or lubricating or lubricant)	USPAT	2003/01/16 15:30
2	2775	oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene)	USPAT	2003/01/16 15:19
3	314	oligomeriz\$5 near40 (lube or lubricating or lubricant)) and oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))	USPAT	2003/01/16 15:10
4	481674	(light or top or overhead) near20 (heavy or bottom)	USPAT	2003/01/16 15:10
5	62	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))	USPAT	2003/01/16 15:24
6	389	catalytic adj distillation	USPAT	2003/01/16 15:30
7	3	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (catalytic adj distillation)	USPAT	2003/01/16 15:24
8	279	oligomeriz\$5 near9 (lube or lubricating or lubricant)	USPAT	2003/01/16 15:30
9	52	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and oligomeriz\$5 near9 (lube or lubricating or lubricant))	USPAT	2003/01/16 15:30
10	114550	distillation	USPAT	2003/01/16 15:30
11	41	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation	USPAT	2003/01/16 15:31
12	1619	oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation	USPAT	2003/01/16 16:27
13	17	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)	USPAT	2003/01/16 15:36

14	15762	produc\$6 near10 (lube or lubricating or lubricant)	USPAT	2003/01/16 15:37
16	4765	(heavy or bottom) near9 (lube or lubricating or lubricant)	USPAT	2003/01/16 15:38
17	8	(((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and (produc\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant))	USPAT	2003/01/16 15:40
18	2	catalytic adj distillation) and ((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and (produc\$6 near10 (lube or lubricating or lubricant)))	USPAT	2003/01/16 15:43
19	1	4678645.pn.	USPAT	2003/01/16 17:36
20	1	(oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.	USPAT	2003/01/16 15:48
21	1	4413153.pn.	USPAT	2003/01/16 15:48
22	0	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) and 4413153.pn.	USPAT	2003/01/16 15:48
23	2	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.	USPAT	2003/01/16 16:24
15	17	(((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and (produc\$6 near10 (lube or lubricating or lubricant)))	USPAT	2003/01/16 15:50
24	64	Tropsh	USPAT	2003/01/16 15:51
25	3581	Tropsch	USPAT	2003/01/16 15:51
26	16	Tropsh and Tropsch	USPAT	2003/01/16 15:51
27	3629	Tropsh or Tropsch	USPAT	2003/01/16 15:51

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62 (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) or (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) or ((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (produc\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant)))

USPAT

2003/01/16  
15:52

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5 Tropsh or Tropesche) and (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) or (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) or ((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (produc\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant)))

USPAT

2003/01/16  
21:25

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397943 viscosity or VI or HVI or XHVI

USPAT

2003/01/16  
15:55

31	3	((Tropsh or Tropsh) and (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene)) and ((light or top or overhead) near20 (heavy or bottom)) or (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene)) and ((light or top or overhead) near20 (heavy or bottom)) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) or ((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene)) and ((light or top or overhead) near20 (heavy or bottom)) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and (product\$6 near10 (lube or lubricating or lubricant)) and ((heavy or bottom) near9 (lube or lubricating or lubricant)))) and viscosity or VI or HVI or XHVI)	USPAT	2003/01/16 15:55
32	1	(oligomeriz\$5 near40 (lube or lubricating or lubricant)) and ((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.)	USPAT	2003/01/16 16:19
33	33081	lube or distillate	USPAT	2003/01/16 16:20
34	1	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and ((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.)) and (lube or distillate)	USPAT	2003/01/16 16:20
35	1	(oligomeriz\$5 near40 (lube or lubricating or lubricant)) and ((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.)	USPAT	2003/01/16 16:24
36	6268	oligomerization	USPAT	2003/01/16 16:25
37	1	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) and oligomerization	USPAT	2003/01/16 16:25
38	1	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) and oligomer\$6	USPAT	2003/01/16 16:27
39	0	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)	USPAT	2003/01/16 16:27
40	86752	(oligomer\$6 or dimer\$7 or trimer\$7)	USPAT	2003/01/16 16:28
41	1	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) and ((oligomer\$6 or dimer\$7 or trimer\$7) )	USPAT	2003/01/16 16:28

42	2	((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) and zsm-5	USPAT	2003/01/16 16:39
43	2	(product\$6 near10 (lube or lubricating or lubricant)) and (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) and zsm-5)	USPAT	2003/01/16 16:39
44	2	4150062.pn. or 4227992.pn.	USPAT	2003/01/16 16:41
45	0	oligomerization and (4150062.pn. or 4227992.pn.)	USPAT	2003/01/16 16:39
46	2791	(oligomeriz\$5 near40 (lube or lubricating or lubricant)) or (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))	USPAT	2003/01/16 16:39
47	0	(4150062.pn. or 4227992.pn.) and ((oligomeriz\$5 near40 (lube or lubricating or lubricant)) or (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene)))	USPAT	2003/01/16 16:40
48	0	((oligomer\$6 or dimer\$7 or trimer\$7) ) and (4150062.pn. or 4227992.pn.)	USPAT	2003/01/16 16:40
49	33081	distillate or lube	USPAT	2003/01/16 16:41
50	0	(4150062.pn. or 4227992.pn.) and (distillate or lube)	USPAT	2003/01/16 16:41
51	5812	(heavy or bottom) near9 (lube or lubric\$6)	USPAT	2003/01/16 16:54
52	52	((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and ((heavy or bottom) near9 (lube or lubric\$6))	USPAT	2003/01/16 16:54
53	0	(catalytic adj distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and ((heavy or bottom) near9 (lube or lubric\$6))	USPAT	2003/01/16 16:55
54	8	(catalytic adj distillation) near12 ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)	USPAT	2003/01/16 16:57
55	1	(lube or distillate) and ((catalytic adj distillation) near12 ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation))	USPAT	2003/01/16 17:01
56	1	(lube or distillate) and ((catalytic adj distillation) near12 ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation))) and (lube or distillate)	USPAT	2003/01/16 17:06
57	1	((lube or distillate) and ((catalytic adj distillation) near12 ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation))) and (lube or distillate)) and lube	USPAT	2003/01/16 17:08
58	414	(oligomer\$7 or dimer\$7 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)	USPAT	2003/01/16 17:21
59	146	585/502.ccls.	USPAT	2003/01/16 17:26
60	1535	585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.	USPAT	2003/01/16 17:26
61	54	585/502.ccls. and 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)	USPAT	2003/01/16 17:26
62	1627	585/502.ccls. or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)	USPAT	2003/01/16 17:28

63	2	((catalytic adj distillation) near12 ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))	USPAT	2003/01/16 17:32
64	0	(distillate or lube) and (((catalytic adj distillation) near12 ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)))	USPAT	2003/01/16 17:32
65	1	distillation and 4678645.pn.	USPAT	2003/01/16 17:37
66	0	((oligomer\$7 or dimer\$7 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) and (distillation and 4678645.pn.)	USPAT	2003/01/16 17:38
67	389	catalytic adj distillation	USPAT	2003/01/16 17:38
68	0	(distillation and 4678645.pn.) and ((catalytic adj distillation)	USPAT	2003/01/16 17:39
69	0	((heavy or bottom) near9 (lube or lubric\$6)) and ((oligomer\$7 or dimer\$7 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation))	USPAT	2003/01/16 17:39
70	18	(585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and ((catalytic adj distillation)	USPAT	2003/01/16 17:42
71	3	((585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and ((catalytic adj distillation)) and (lube or lubricating or distillate)	USPAT	2003/01/16 17:59
72	0	((585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and ((catalytic adj distillation)) and (lube or lubricating)	USPAT	2003/01/16 17:49
73	1932	((oligomer\$7 or dimer\$7 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)	USPAT	2003/01/16 17:52
74	604	((viscosity or VI or HVI or XHVI) and ((oligomer\$7 or dimer\$7 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))	USPAT	2003/01/16 17:52
75	445	((585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and ((viscosity or VI or HVI or XHVI) and ((oligomer\$7 or dimer\$7 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)))	USPAT	2003/01/16 17:53
76	80	((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and ((585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and ((viscosity or VI or HVI or XHVI) and ((oligomer\$7 or dimer\$7 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)))	USPAT	2003/01/16 17:53

77	4	((oligomer\$7 or dimer47 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and ((585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and ((viscosity or VI or HVI or KHVI) and ((oligomer\$7 or dimer47 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))))))	USPAT	2003/01/16 17:59
78	0	(catalytic adj distillation) and (((oligomer\$7 or dimer47 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation) and ((585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and ((viscosity or VI or HVI or KHVI) and ((oligomer\$7 or dimer47 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))))))	USPAT	2003/01/16 17:59
79	18	(585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and (catalytic adj distillation)	USPAT	2003/01/16 17:59
80	67288	lube or lubricating	USPAT	2003/01/16 18:00
81	0	((585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.) and (catalytic adj distillation)) and (lube or lubricating)	USPAT	2003/01/16 18:01
82	2	((oligomer\$7 or dimer47 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) and (catalytic adj distillation) and (lube or lubricating)	USPAT	2003/01/16 18:53
83	1817	oligomeriz\$5 near9 catalyst	USPAT	2003/01/16 18:54
84	2	((oligomer\$7 or dimer47 or trimer\$7 or polymeriz\$7) near15 ((catalytic or reactive or column) near4 distillation)) and (catalytic adj distillation) and (lube or lubricating)) and (oligomeriz\$5 near9 catalyst)	USPAT	2003/01/16 20:39
85	1	4308414.pn.	USPAT	2003/01/16 19:00
86	1	(oligomeriz\$5 near9 catalyst) and 4308414.pn.	USPAT	2003/01/16 19:08
87	1075	(pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6	USPAT	2003/01/16 19:13
88	0	((oligomeriz\$5 near9 catalyst) and 4308414.pn.) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6)	USPAT	2003/01/16 19:07
89	1627	585/500.ccls. or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)	USPAT	2003/01/16 19:07
90	85	((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/500.ccls. or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))	USPAT	2003/01/16 19:08

91	1	((catalytic adj distillation) and (((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))))	USPAT	2003/01/16 19:10
93	1	((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (4308414.pn. or ((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))))))	USPAT	2003/01/16 19:10
94	166	((pd or palladium or (group adj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6	USPAT	2003/01/16 19:15
95	0	((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (4308414.pn. or ((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)))))) and ((pd or palladium or (group adj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6)	USPAT	2003/01/16 19:13
96	0	((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)))) and ((pd or palladium or (group adj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6)	USPAT	2003/01/16 19:14
97	259807	((pd or palladium or (group adj VIII) or pt or platinum or ir or iridium or rhodium or noble)	USPAT	2003/01/16 19:15
98	1	(4308414.pn. or ((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.)))) and ((pd or palladium or (group adj VIII) or pt or platinum or ir or iridium or rhodium or noble))	USPAT	2003/01/16 19:15
92	2	(4308414.pn. or ((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))))	USPAT	2003/01/16 20:16
99	1	(lube or lubricating) and (4308414.pn. or ((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/502.ccls. or 585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))))))	USPAT	2003/01/16 20:12



100	1	(oligomeriz\$5 near9 catalyst) and (4308414.pn. or ((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/502.ccls. or (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 208/18.ccls.))))))	USPAT	2003/01/16 20:16
101	1	6398946.pn.	USPAT	2003/01/16 20:39
102	0	(catalytic adj distillation) and 6398946.pn.	USPAT	2003/01/16 21:04
103	0	(catalytic adj distillation) and ((Tropsh or Tropsch) and (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) or (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) or (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (produc\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant))))))	USPAT	2003/01/16 21:25

L Number	Hits	Search Text	DB	Time stamp
99	1	((lube or lubricating) and (4308414.pn. or ((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 268/18.ccls.))))))	USPAT	2003/01/16 20:11
100	1	((oligomeriz\$5 near9 catalyst) and (4309414.pn. or ((catalytic adj distillation) and ((pd or palladium or (group aj VIII) or pt or platinum or ir or iridium or rhodium or noble) near30 oligomeriz\$6) and (585/510.ccls. or 585/517-520.ccls. or 585/601.ccls. or 268/18.ccls.))))))	USPAT	2003/01/16 20:16
101	1	6398946.pn.	USPAT	2003/01/16 20:39
102	0	((catalytic adj distillation) and 6398946.pn.	USPAT	2003/01/16 21:04
103	0	((catalytic adj distillation) and ((Tropsh or Tropsh) and (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom)) or (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom)) and (oligomeriz\$5 near9 (lube or lubricating or lubricant)) or (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom)) and (oligomeriz\$5 near9 (lube or lubricating or lubricant)) and distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (produc\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant))))))	USPAT	2003/01/16 21:30



105

110 hydrofinish\$ near12 (lube or distillate) USPAT

2003/01/16  
21:34

## Search History

0 (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) or (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (produc\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant))) or ((catalytic adj distillation) and (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (produc\$6 near10 (lube or lubricating or lubricant))) or ((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) or (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) or ((Tropsch or Tropsch) and ((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) or (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) or (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) or (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and ((light or top or overhead) near20 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and ((oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (produc\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant)))))) or (Tropsch or Tropsch) and (((oligomeriz\$5 near40 (lube or

## Search History

109	97993	hydrofinishing or hydrofinished or hydrotreat\$3 or hydrogenat\$3	USPAT	2003/01/16 21:36
110	1012	(lube or lubricating) near12 ( hydrofinishing or hydrofinished or hydrotreat\$3 or hydrogenat\$3)	USPAT	2003/01/16 21:37



6 (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and (light or top or overhead) near30 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) or (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and (light or top or overhead) near30 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (product\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant)) or ((catalytic adj distillation) and (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and (light or top or overhead) near30 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (product\$6 near10 (lube or lubricating or lubricant))) or (oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn. or ((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and 4678645.pn.) or 4413153.pn.) or (Tropsch or Tropsch) and (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and (light or top or overhead) near30 (heavy or bottom))) or (((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and (light or top or overhead) near30 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) or (((((((oligomeriz\$5 near40 (lube or lubricating or lubricant)) and (oligomeriz\$5 near12 (olefin or olefinic or methylene or ethylene or propylene or butene or butylene or ethene or alkene or propene or pentene or hexene))) and (light or top or overhead) near30 (heavy or bottom))) and (oligomeriz\$5 near9 (lube or lubricating or lubricant))) and distillation) and (oligomer\$6 or dimer\$7 or trimer\$7) near12 distillation)) and (product\$6 near10 (lube or lubricating or lubricant))) and ((heavy or bottom) near9 (lube or lubricating or lubricant)))) or space search erw Tropsch) and (((oligomeriz\$5 near40 (lube or